



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/683,613	01/24/2002	Fred Christians	3386.1	9358	
22886 7.	590 04/28/2005		EXAM	EXAMINER	
AFFYMETRI	•	WILDER, CYNTHIA B			
ATTN: CHIEF IP COUNSEL, LEGAL DEPT. 3380 CENTRAL EXPRESSWAY			ART UNIT	PAPER NUMBER	
SANTA CLAR	SANTA CLARA, CA 95051			1637	

DATE MAILED: 04/28/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

·		Application No.	Applicant(s)			
Office Action Summary			CHRISTIANS ET AL			
		09/683,613				
		Examiner Cypthia B. Wilder, Bh. D.	Art Unit			
	The MAILING DATE of this communication app	Cynthia B. Wilder, Ph.D. Dears on the cover sheet with the cover				
Period fo			•			
THE N - Exter after - If the - If NO - Failui Any r	ORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. usions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a repl period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tir by within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from to, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. (D) (35 U.S.C. § 133).			
Status						
1)🖂	Responsive to communication(s) filed on 14 F	ebruary 2005.				
2a)⊠	This action is FINAL . 2b) This action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4)⊠ 5)□ 6)⊠ 7)□	Claim(s) 1-21 is/are pending in the application 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) 1-21 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/o	wn from consideration.				
Applicati	on Papers					
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment		_				
2) Notic 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal f 6) Other:				
S. Patent and Trademark Office						

Application/Control Number: 09/683,613

Art Unit: 1637

FINAL ACTION

1. Applicant's amendment filed February 14, 2004 is acknowledged and has been entered.

Claims 1 and 12 have been amended. Claims 1-21 are pending. All of the arguments have been

thoroughly reviewed and considered but are not found persuasive for the reasons discussed

below. Any rejection not reiterated in this action has been withdrawn as being obviated by the

amendment of the claims.

This action is made FINAL

2. The text of those sections of Title 35, U.S. Code not included in this action can be found

in a prior Office action.

Previous Rejections

3. The claim rejection under 35 USC 112 second paragraph is withdrawn in view of

Applicant's amendment of the claims. The prior art rejection under 35 USC 102 directed to

claim 1 as being anticipated by Kuimelis et al is withdrawn in view of Applicant's amendment.

The prior art rejection under 35 USC 103 directed to claims 1-21 as being obvious over Kuimelis

et al in view of Gold et al and further in view of Fodor et al is maintained and discussed below.

The prior art rejection under 35 USC 103 directed to claims 12-21 as being obvious over

Baskerville et al in view of Fodor et al is maintained and discussed below.

Applicant's Traversal

4. Applicant's traverse the rejection under 35 USC 103(a) on the following grounds:

Applicant summarizes the Examiner's rejection and states that the claims have been amended to

recite supplying more tags than the target mRNAs to be tagged. Applicant states that the

Page 2

Art Unit: 1637

amended claims are directed to a method of tagging peptides without using target specific tags. Applicant states that the cited references, individually or in combination, do not teach, suggest or motivates tagging peptides without using target specific tags. Applicant reference the rejection of claims under 103(a) is obviated. Applicant concludes that the pending claims as amended are now in condition for allowance.

Examiner's Response

All of the arguments filed on February 14, 2005 have been fully reviewed and considered but they are not found persuasive for the reasons that follows: In regards to Applicant arguments that the references, Kuimelis et al in view of Gold et al in view of Fodor et al, do not teach "supplying more tags than the target mRNAs to be tagged", it is firstly noted that the claims as amended recite* "supplying more tags than the plurality of polypeptides to be tagged" not "target mRNAs to be tagged". Nonetheless, the references of Kuimelis et al in view of Gold et al in view of Fodor et al meet the limitations of the claims as amended. Kuimelis et al teach wherein using a "population of tags which differ in sequence from one another such that each target has a unique binding partner under the conditions employed". Kuimelis et al teach the term "population" means more than one molecule. (See page 6). Kuimelis et al does not provide a limit on the number of tags that may be employed in the method and hence the term "population" may encompass any number of tags.

Gold et al teach a collection of mRNA which complexes with a plurality of polypeptides, wherein each mRNA comprises a tag not being uniquely assigned to the polypeptides, but bound to the mRNA (page 42). Gold et al teaches wherein more nucleic acids which complexes with

Art Unit: 1637

the plurality of polypeptides are provided. Specifically, Gold et al states that "it will generally be preferred that "the test mixture contain as large a number of possible sequence variants as is practical for selection, to insure that a maximum number of potential amino acid sequences of the translated polypeptide are identified". Gold et al states that "a randomized sequence of 60 nucleotides will contain a calculated 10³⁶ different candidate nucleic acids sequence would encode 10²⁶ possible decapeptides". Gold states "as a practical matter, it is possible to sample only about 10¹⁸ polypeptides candidates in a single selection" (see page 27). Since Gold et al teaches that more nucleic acid sequences are utilized in the linking process and that each nucleic acid sequence may contain a nucleic acid tag, it clear from the teachings of Gold et al that more tags may be supplied in the method than polypeptides.

In regards to Applicant's arguments concerning the 103 rejection of Baskerville et al in view of Fodor, the examiner disagree that the references do not teach the limitation of supplying more tags than plurality of polypeptides. The reference of Baskerville et al, in contrast, teaches that "because there is *no limit* on the *number of different possible nucleic acids*, an essentially unlimited number of different (uniquely or specifically) tagged polypeptides can be produced and once produced, the tagged polypeptides can be analyzed via hybridization to DNA arrays (page 23, line 21 to col. 24, line 15 and page 26, line 4 to page 27, line 7; see also page 25, lines 16-30 and Fig. 3). Hence, the references place no limit on the use of tags in the method. Applicant's arguments are not sufficient to overcome the prior art rejections under 35 USC 103(a). Accordingly, the rejections under 35 USC 103(a) are maintained.

Conclusion

6. No claims are allowed. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cynthia B. Wilder, Ph.D. whose telephone number is (571) 272-0791. The examiner works a flexible schedule and can be reached by phone and voice mail. Alternatively, a request for a return telephone call may be emailed to cynthia wilder@uspto.gov. Since email communications may not be secure, it is suggested that information in such request be limited to name, phone number, and the best time to return the call.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Benzion can be reached on (571) 272-0782. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 09/683,613

Art Unit: 1637

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the USPTO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO's Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO's PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file folder(s) as well as general patent information available to the public.

For all other customer support, please call the USPTO Call Center (UCC) at 800-786-9199.

KENNETH R. HORLICK, PH.D PRIMARY EXAMINED

Page 6

4/25/05